

 <p>CARLO GAVAZZI</p> <p>CARLO GAVAZZI SPACE SpA</p>	<p>AMS02-PDS</p>	<p>DOC N°: PDS-RP-CGS-054</p> <p>ISSUE : 1 DATE: 21/08/2008</p> <p>PAGE : 1 of 6</p>
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INSPECTION REPORT

<p>APPLICABLE DOC. REF.</p> <p>AMS02-PDS PFM Manufacturing and Inspection Plan PDS-PL-CGS-001 is. 1</p>	<p>PROC. REF.</p> <p>N.A.</p>
<p>ITEM INSPECTED (Name, P/N, S/N) AMS02-PDS PFM – Visual inspection of some Piggy Back Boards before partially conformal coating -- Inspection Point.</p>	
<p>REQUIREMENT SATISFIED</p> <p>Manufacturing according to aerospace standards</p>	
<p>INSPECTION (Action/Results)</p>	
<p><u>DESCRIPTION</u></p> <p>Inspection was performed at Carlo Gavazzi Space premises starting on 21 August 2008 and was carried out on the following boards before partially conformal coating applied only on one layer, detail of the inspected boards were below reported:</p> <ol style="list-style-type: none"> 1) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07-015 / E. 2) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07-016 / E. 3) Esem 1-A PIGGY BACK Assy p/n:11-AMS02PDS-610.00 s/n:07-032/B. 4) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / E. 5) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/A. 6) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/E. 7) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07/015/B. 	
<p><u>HARDWARE REVIEW</u></p>	
<p>1) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07-015 / E, Assy:11-AMS02PDS-740.00 rev./, Parts List:11-AMS02PDS-740.02 rev./, Electrical Scheme:11-AMS02PDS-740.03 rev./, Master PCB:SPO-PD-020010-DR-03-CGS rev./.</p>	
<p>The following NCRs were presented during the inspection:</p>	
<ul style="list-style-type: none"> • NCR-PDS-CGS-C-040(electrical connection missing on pcb), NCR classified "minor" is closed. • NCR-PDS-CGS-C-042(OVC protection improvement), NCR classified "minor" is closed. 	
<p>Signature</p>	<p>Operator Quality Assurance C.C.</p>
<p>Date</p>	<p><i>[Signature]</i> <i>[Signature]</i> <i>F. M. R.</i></p> <p>21/08/08 21/08/08 21/08/08</p>

INSPECTION REPORT

APPLICABLE DOC. REF.

See page 1

PROC. REF.

See page 1

ITEM INSPECTED (Name, P/N, S/N)

See page 1

REQUIREMENT SATISFIED

See page 1

INSPECTION (Action/Results)

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-740.02 rev / - A2 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A12 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A13 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A15 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A16 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A18 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A21 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

2) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07-016 / E, Assy:11-AMS02PDS-740.00 rev./, Parts List:11-AMS02PDS-740.02 rev./, Electrical Scheme:11-AMS02PDS-740.03 rev./, Master PCB:SPO-PD-020010-DR-03-CGS rev./.

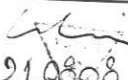
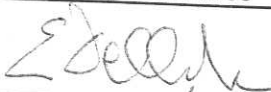
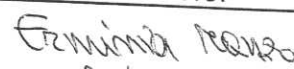
The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-040(electrical connection missing on pcb), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-042(OVC protection improvement), NCR classified "minor" is closed.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-740.02 rev / - A2 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A11 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A13 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A15 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A16 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A18 can be considered closed.
- 11-AMS02PDS-740.02 rev / - A21 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

	Operator	Quality Assurance	C.C.
Signature			
Date	21/08/08	21/08/08	21/08/08

INSPECTION REPORT

APPLICABLE DOC. REF.

See page 1

PROC. REF.

See page 1

ITEM INSPECTED (Name, P/N, S/N)

See page 1

REQUIREMENT SATISFIED

See page 1

INSPECTION (Action/Results)

3) Esem 1-A PIGGY BACK Assy p/n:11-AMS02PDS-610.00 s/n:07-032/B, Assy:11-AMS02PDS-610.00 rev./, Parts List:11-AMS02PDS-610.01 rev.A, Electrical Scheme:11-AMS02PDS-610.02 rev./, Master PCB:11-AMS02PDS-610.03 rev./.

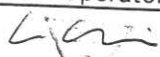
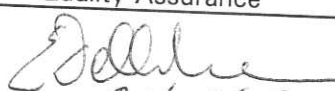
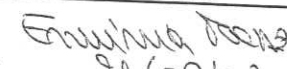
The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-027(over voltage protection missing), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-068(over voltage protection missing connection), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-083(pull down for signal I/F), NCR classified "minor" is closed.

The following PLVs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-610.01 rev A – A1 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A2 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A3 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A4 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A5 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A8 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A9 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A10 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A18 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A19 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A20 can be considered closed.
- 11-AMS02PDS-610.01 rev A – A21 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

	Operator	Quality Assurance	C.C.
Signature			
Date	21/08/08	21/08/08	21/08/08

INSPECTION REPORT

APPLICABLE DOC. REF.

See page 1

PROC. REF.

See page 1

ITEM INSPECTED (Name, P/N, S/N)

See page 1

REQUIREMENT SATISFIED

See page 1

INSPECTION (Action/Results)

4) PB2 FPGA BOARD ASSY p/n:11-AMS02PDS-710.00 s/n:07-038 / E, Assy:11-AMS02PDS-710.00 rev./, Parts List: 11-AMS02PDS-710.01rev.A, Electrical Scheme: 11-AMS02PDS-710.02 rev./, Master PCB:11-AMS02PDS-710.03 rev./.

The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-086(pull down MUX problem), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-087(FPGA failure), NCR classified "minor" is closed.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-710.01 rev A – A1 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A2 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A3 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A6 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A13 can be considered closed.
- 11-AMS02PDS-710.01 rev A – A14 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

5) PB2 EMI FILTER BOARD ASSY p/n:11-AMS02PDS-720.00 s/n:07/018/A, Assy:11-AMS02PDS-720.00 rev./, Parts List:11-AMS02PDS-720.01 rev.A, Electrical Scheme:11-AMS02PDS-720.02 rev./, Master PCB: SPO-PD-020503-DR-03-CGS rev./.

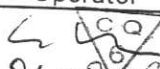
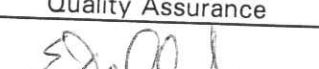
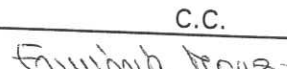
The following NCR was presented during the inspection:

- NCR-PDS-CGS-C-015(electronic components assembly problems), NCR classified "minor" is closed.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-720.01 rev A - A1 can be considered closed.
- 11-AMS02PDS-720.01 rev A – A2 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

	Operator	Quality Assurance	C.C.
Signature			
Date	21/08/08	21/08/08	21/08/08

INSPECTION REPORT

APPLICABLE DOC. REF.

See page 1

PROC. REF.

See page 1

ITEM INSPECTED (Name, P/N, S/N)

See page 1

REQUIREMENT SATISFIED

See page 1

INSPECTION (Action/Results)

6) PB2 FRONT PANEL BOARD ASSY p/n:11-AMS02PDS-730.00 s/n:07/020/E, Assy:11-AMS02PDS-730.00 rev.A, Parts List: 11-AMS02PDS-730.01 rev.A, Electrical Scheme: 11-AMS02PDS-730.02 rev.A, Master PCB: FSL-030141-DR-03-CGS rev./.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-730.01 rev A - A1 can be considered closed.
- 11-AMS02PDS-730.01 rev A - A2 can be considered closed.
- 11-AMS02PDS-730.01 rev A - A4 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

7) AUX DC/DC BOARD ASSY p/n:11-AMS02PDS-740.00 s/n:07/015/B, Assy:11-AMS02PDS-740.00 rev./, Parts List:11-AMS02PDS-740.01 rev./, Electrical Scheme:11-AMS02PDS-740.03 rev./, Master PCB:SPO-PD-020010-DR-03-CGS rev./.

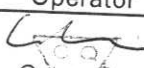
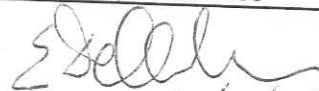
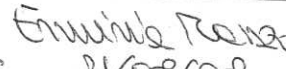
The following NCRs were presented during the inspection:

- NCR-PDS-CGS-C-039(electrical connection missing), NCR classified "minor" is closed.
- NCR-PDS-CGS-C-044(OVC protection improvement), NCR classified "minor" is closed.

The following PLVSs (Parts List Variation Sheet) were presented during the inspection:

- 11-AMS02PDS-740.01 rev / - A1 can be considered closed.
- 11-AMS02PDS-740.01 rev / - A2 can be considered closed.
- 11-AMS02PDS-740.01 rev / - A3 can be considered closed.
- 11-AMS02PDS-740.01 rev / - A4 can be considered closed.
- 11-AMS02PDS-740.01 rev / - A12 can be considered closed.
- 11-AMS02PDS-740.01 rev / - A14 can be considered closed.
- 11-AMS02PDS-740.01 rev / - A15 can be considered closed.
- 11-AMS02PDS-740.01 rev / - A18 can be considered closed.

The H/W has been visually inspected and is ok: no damage, visible clean is ok.

	Operator	Quality Assurance	C.C.
Signature			
Date	21.08.08 G. G. S.	21/08/08	21/08/08

CARLO GAVAZZI

CARLO GAVAZZI SPACE SpA

AMS02-PDS

DOC N°: PDS-RP-CGS-054

ISSUE : 1 DATE: 21/08/2008

PAGE : 6 of 6

INSPECTION REPORT

APPLICABLE DOC. REF.

See page 1

PROC. REF.

See page 1

ITEM INSPECTED (Name, P/N, S/N)

See page 1

REQUIREMENT SATISFIED

See page 1

INSPECTION (Action/Results)

CONCLUSION

All solder joints are of adequate quality, the soldering process complies to ECSS-Q-70-08A and ECSS-Q-70-38A, all modifications are performed according to ECSS-Q-70-28A.


Operator

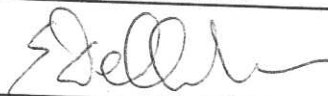
Quality Assurance

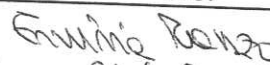
C.C.

Signature

Date


21.08.08
G. G. S.


21/08/08


21/08/08